

SPIN BOWL HAVING FLUID SEAL FOR PREVENTING AIR FROM FLOWING INTO THE BOWL DURING SPINNING

ABSTRACT OF THE DISCLOSURE

A spin bowl includes a base and a sidewall that extends from the base. The base has an upper portion for supporting a substrate in a horizontal plane and a lower portion that intersects with the sidewall. The lower portion of the base has a plurality of drain holes formed therein proximate to the sidewall. Each of the plurality of drain holes is configured to trap fluid therein during spinning of the spin bowl to thereby form a fluid seal that prevents air from flowing therethrough. In one embodiment, each of the drain holes is V-shaped. In another embodiment, the fluid seal is formed by the intersection of a straight drain hole with an external fluid catch area. An apparatus and method for spin coating a film over a substrate also are described.

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